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JC863 U.S.  
PTO

# UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
480.75-2 (HV)

Total Pages in this Submission  
70

**TO THE ASSISTANT COMMISSIONER FOR PATENTS**  
**Box Patent Application**  
**Washington, D.C. 20231**

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**CRYPTOPAIN VACCINES, ANTIBODIES, PROTEINS, PEPTIDES, DNA AND RNA FOR  
PROPHYLAXIS, TREATMENT AND DIAGNOSIS AND FOR DETECTION OF  
CRYPTOSPORIDIUM SPECIES**

and invented by:

**CAROLYN PETERSEN, ET AL.**

JC863 U.S. 09/598,620  
PTO 20/00

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

Continuation    Divisional    Continuation-in-part (CIP) of prior application No.: 08/827,171

Which is a:

Continuation    Divisional    Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

Continuation    Divisional    Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

## Application Elements

1.  Filing fee as calculated and transmitted as described below
  
2.  Specification having 59 pages and including the following:
  - a.  Descriptive Title of the Invention
  - b.  Cross References to Related Applications (*if applicable*)
  - c.  Statement Regarding Federally-sponsored Research/Development (*if applicable*)
  - d.  Reference to Microfiche Appendix (*if applicable*)
  - e.  Background of the Invention
  - f.  Brief Summary of the Invention
  - g.  Brief Description of the Drawings (*if drawings filed*)
  - h.  Detailed Description
  - i.  Claim(s) as Classified Below
  - j.  Abstract of the Disclosure

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**Application Elements (Continued)**

3.  Drawing(s) (*when necessary as prescribed by 35 USC 113*)  
a.  Formal      b.  Informal      Number of Sheets \_\_\_\_\_ 9
4.  Oath or Declaration  
a.  Newly executed (*original or copy*)       Unexecuted  
b.  Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)  
c.  With Power of Attorney       Without Power of Attorney  
d.  **DELETION OF INVENTOR(S)**  
*Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).*
5.  Incorporation By Reference (*usable if Box 4b is checked*)  
*The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied  
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.*
6.  Computer Program in Microfiche
7.  Genetic Sequence Submission (*if applicable, all must be included*)  
a.  Paper Copy  
b.  Computer Readable Copy  
c.  Statement Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

8.  Assignment Papers (*cover sheet & documents*)
9.  37 CFR 3.73(b) Statement (*when there is an assignee*)
10.  English Translation Document (*if applicable*)
11.  Information Disclosure Statement/PTO-1449       Copies of IDS Citations
12.  Preliminary Amendment
13.  Acknowledgment postcard
14.  Certificate of Mailing  
 First Class     Express Mail (*Specify Label No.*): EL521153147US

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**Accompanying Application Parts (Continued)**

15.  Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
16.  Small Entity Statement(s) - Specify Number of Statements Submitted: 1
17.  Additional Enclosures (*please identify below*):  

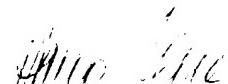

**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	21	- 20 =	1	x \$9.00	\$9.00
Indep. Claims	3	- 3 =	0	x \$39.00	\$0.00
Multiple Dependent Claims (check if applicable)	<input type="checkbox"/>				\$0.00
				BASIC FEE	\$345.00
OTHER FEE (specify purpose)					\$0.00
				TOTAL FILING FEE	\$354.00

- A check in the amount of \$354.00 to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge and credit Deposit Account No. 16-1331 as described below. A duplicate copy of this sheet is enclosed.
- Charge the amount of \_\_\_\_\_ as filing fee.
  - Credit any overpayment.
  - Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
  - Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: JUNE 20, 2000



Signature

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